

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T
(pursuant to NAC 445A.236)

Permittee Name: Utilities Inc. of Central Nevada
1240 E. State Street Suite 115
Pahrump, Nevada 89048

Permit Number: NEV97016

Description of Discharge

Location: Calvada North Plant #2/Plant "F" Wastewater Treatment Plant
Leslie Street and Avellaneda Street, Calvada Valley
North, Unit #3, Block 8, Lot 1
Pahrump, Nye County, Nevada 89048

Latitude 36° 12' 00"N; Longitude 116° 00' 30"W
SW1/4,NW1/4 Section 17, T. 19S., R. 53E., MDB&M

General: The Permittee has applied for renewal of a permit to discharge from Plant "F" to groundwaters of the state via land application for onsite reuse irrigation. The existing package treatment plant, a 0.010 MGD plant, is designed to treat domestic wastewater for Phase I of the subdivision/service area development; Phase II would enlarge the plant and increase the treatment capacity of the facility to 0.035 MGD. Currently, due to slow growth and a limited number of connections on the system, flows are too low for the biological processes in the plant to treat sewage properly. In the near term this situation is temporarily managed by weekly pumping the sewage that has been collected and aerated in the plant, and trucking it to the main treatment plant (NEV89063) for treatment. When flows increase and are sufficient, the plant will then be put on line and operated in accordance with the Operations and Maintenance Manual (O & M) for the facility. The plant is a Marwood activated sludge process denitrifying package treatment plant designed to treat wastewater to meet secondary treatment standards. Treated effluent will be disinfected to 2.2/CFU/MPN/ml fecal coliform quality prior to reuse for landscape irrigation of poplar trees and turf grasses on site. (Outfall 001) There is an emergency 55' X 80' lined effluent storage basin on site.

Plans are underway to incorporate flows from the Calvada North #1 Plant "B", (known as the Sports Complex facility) in the near future. This facility serves a small residential community, however a new recreational vehicle park is under construction on the site of the former sports complex, and when completed this year, will be connected with plant "F" via a lift station and interceptor.

Flow: The current plant facility has a flow limit for the 30-day average of 0.010 MGD (million gallons a day) for Phase I. The Phase II expansion of the Marwood plant will have a flow limit of 0.035 MGD for the 30-day average.

Effluent Limitations:

The discharges shall be limited and monitored by the Permittee as specified below:

<u>PARAMETERS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	<u>30-day Ave.</u>	<u>Daily Max</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
INFLUENT FLOW:				
Phase I	0.010 MGD	M & R	Continuous	Recorder
Phase II	0.035 MGD	M & R	Continuous	Recorder
EFFLUENT FLOW:				
Outfall 001	M & R	M & R	Continuous	Meter
INFLUENT BOD ₅ :	M & R	M & R	Monthly	Composite
EFFLUENT BOD ₅ :	30 mg/L	45 mg/L	Monthly	Composite
TOTAL SUSPENDED SOLIDS:				
INFLUENT:	M & R	M & R	Monthly	Composite
EFFLUENT:	30 mg/L	45 mg/L	Monthly	Composite
AMMONIA as N:	M & R	M & R	Monthly	Composite
NITRATE AS N:	M & R	M & R	Monthly	Composite
TOTAL NITROGEN as N: Phase I	20 mg/L	M & R	Monthly	Composite
TOTAL NITROGEN as N: Phase II	10 mg/L	M & R	Monthly	Composite
pH:	Between 6.0 and 9.0 SU		Monthly	Discrete
FECAL COLIFORM:	2.2 CFU/100 ml	23 CFU/100 ml	Monthly	Discrete

Receiving Water Characteristics: The receiving water is the groundwater of the State of Nevada. Based on historic data, the groundwater in the immediate area is potable and a drinking water source. Depth to groundwater is about 100 feet below ground surface.

GROUNDWATER MONITORING: Well # 1 downgradient

TDS:	Monitor & Report	June & November
Total Nitrogen as N:	Monitor & Report	June & November
Nitrate as N:	10 mg/L	June & November
Chlorides:	Monitor & Report	June & November
Groundwater Elevation:	Monitor & Report	June & November
Static Water Level	Monitor & Report	June & November

Procedures for Public Comment:

The notice of the Division's intent to reissue a permit authorizing the facility to discharge to groundwaters of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Pahrump Valley Times and the Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the newspaper publication of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of U.S. EPA Region IX or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing scheduled by the Administrator must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to issue the proposed permit for a five (5) year period.

Schedule of Compliance and Special Conditions

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.

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- b. A revised Operations and Maintenance Manual (O & M) and revised Effluent Management Plan (EMP) shall be submitted to the Division for review and approval by July 30, 2003. Interim wastewater handling shall be noted in the document. A sludge Management Plan shall also be included in the O & M Manual. If sludge is disposed to locations other than approved landfill sites, said plan must also address Part 40 CFR Section 503 of the federal regulations. The EMP shall include information in accordance with WTS-1. A groundwater monitoring plan shall also be included in the EMP as an Appendix.
- c. A letter of Certification wet-stamped by a Nevada Registered Professional Engineer stating that all plant expansion upgrades/elements are constructed in accordance with Division approved plans for the Phase II expansion, shall be submitted to the Division.
A copy of the as-builts for the new plant facility and its related infrastructure shall also be included with the Certification.

There are no special conditions

Rationale for Permit Requirements:

Monitoring is required to assess the level of treatment being provided, to determine when design capacity is being approached and to ensure that surface and groundwaters are not degraded.

Prepared by: Icyl C. Mulligan
(02/03)